

GLOBE in Alabama

**GLOBE Partner: Robin Nelson, Lynn Vaughan & Dr. Jerry Cobbs
Alabama Math, Science, and Technology Initiative, AMSTI-GLOBE**

History:

- **Partnership Formed: November 2006**
- **Began training teachers as GLOBE in Alabama: April 2003**
- **Conducted 62 teacher training workshops and 4 Train-the-Trainer workshops to date**

12614 GLOBE Teachers

1027 GLOBE Schools

218,697 Total GLOBE Measurements Submitted

5 Schools with 106 Chief Scientist's Honor Roll Citations



GLOBE in Arkansas

**GLOBE Partner: Dr. John & Lynne Hehr
University of Arkansas, Fayetteville**

History:

- **Partnership Formed: March 1997**
- **Began training teachers: August 1996**
- **Conducted 47 teacher training workshops to date**

691 GLOBE Teachers

335 GLOBE Schools

483,517 Total GLOBE Measurements Submitted
9 Schools with 385 Chief Scientist's Honor Roll Citations



GLOBE in Colorado

**GLOBE Partner: Deanna TeBockhorst
Colorado State University / Environmental Learning Center**

History:

- **Partnership Formed: March 2007**
- **Began training teachers: September 2007**
- **Conducted 10 teacher training workshops and 2 Train-the-Trainer workshops to date**

389 GLOBE Teachers

275 GLOBE Schools

116,735 Total GLOBE Measurements Submitted
4 Student Research Projects published on Web site
6 Schools with 34 Chief Scientist's Honor Roll Citations

International and U.S. Collaborations:

- ✚ **Through our partnership with CloudSat we have:**
 - **Participated in trainings and supported schools/teachers in India, Germany, Thailand, Estonia, Australia, and Porta Rica**
- ✚ **In collaboration with SUNY, NY partner:**
 - **GLOBE school in Estes Park in a Costa Rica 'Sister City' project**
 - **Submitted grant for partnered professional development**

Future goals:

Seek additional co-partner opportunities
Develop GLOBE Colorado network



GLOBE in Connecticut

**GLOBE Partner: Tom Alena & Jonathan Craig
Talcott Mountain Science Center**

History:

- **Partnership Formed: December 1996**
- **Began training teachers: April 1997**
- **Conducted 28 teacher training workshops and 1 Train-the-Trainer workshops to date**

405 GLOBE Teachers

259 GLOBE Schools

**48,822 Total GLOBE Measurements Submitted
1 School with 1 Chief Scientist's Honor Roll Citation**



GLOBE in Florida

**GLOBE Partner: Dr. Paul Ruscher
Florida State University, Tallahassee**

History:

- **Partnership Formed: October 2000**
- **Began training teachers: January 2001**
- **Conducted 29 teacher training workshops to date**

779 GLOBE Teachers

544 GLOBE Schools

169,682 Total GLOBE Measurements Submitted
3 Schools with 5 Chief Scientist's Honor Roll Citations



GLOBE in Florida

**GLOBE Partner: Dr. Elizabeth Moses
SCUBAnauts International**

History:

- **Partnership Formed: May 2009**
- **Began training teachers: May 2009**
- **Conducted 1 teacher training workshops to date**

779 GLOBE Teachers

544 GLOBE Schools

169,682 Total GLOBE Measurements Submitted
3 Schools with 5 Chief Scientist's Honor Roll Citations



GLOBE in Illinois

GLOBE Partner: Gregory Lopatka
Naperville Community Unit School District 203

History:

- **Partnership Formed: December 2002**
- **Began training teachers: September 2003**
- **Conducted 6 teacher training workshops to date**

511 GLOBE Teachers

347 GLOBE Schools

232,700 Total GLOBE Measurements Submitted
1 Student Research Projects published on Web site
3 Schools with 83 Chief Scientist's Honor Roll Citations

International and U.S. Collaborations:

- ✚ **Collaborated with the following as a GLOBE Teacher Trainer: University of Illinois Urbana, Drexel University in Philadelphia, New York University, Ohio Aerospace Institute, New Hampshire, University of Iowa, University of Colorado, Ohio Aerospace Institute, GLOBE New Mexico Workshop, Charleston GLOBE South Carolina Workshop, & West Chester PA.**
- ✚ **Conducted Teacher Workshops in: Naperville, Highland Park, Park Ridge, & Morton Arboretum.**

<http://www.lopatka.net/>



GLOBE in Illinois

**GLOBE Partner: Dr. Do-Yong Park
Illinois State University**

History:

- **Partnership Formed: July 2005**
- **Began training teachers: October 2006**
- **Conducted 3 teacher training workshops to date**

511 GLOBE Teachers

347 GLOBE Schools

232,700 Total GLOBE Measurements Submitted

1 Student Research Projects published on Web site

3 Schools with 83 Chief Scientist's Honor Roll Citations

International and U.S. Collaborations:

- ✚ **Working with a local school to establish a GLOBE site working with children 4th-5th graders to measure temperature, soil temperature, clouds, surface temperature, UV, and precipitation.**
- ✚ **University provided a partnership workshop for in-service teachers from K-12 including:**
 - ✚ **In-service teachers at elementary and junior high levels**
 - ✚ **Pre-service science teachers at the university**
 - ✚ **University instructors who want to use GLOBE in their university classes**
- ✚ **Collaborating with GLOBE teachers at the local and the regional levels certified through GLOBE workshops provided by Dr. Do-Yong Park at Illinois State University.**



GLOBE in Michigan

GLOBE Partner: David Bydlowski
Wayne County Math/Science Center at Wayne County RESA

History:

- **Partnership Formed: December 1998**
- **Began training teachers: August 1999**
- **Conducted 25 teacher training workshops to date**

916 GLOBE Teachers

624 GLOBE Schools

240,325 Total GLOBE Measurements Submitted

15 Schools with 134 Chief Scientist's Honor Roll Citations

International and U.S. Collaborations:

- ✚ **Elementary GLOBE Tri-County Collaborative with Macomb ISD, Oakland Schools and the Detroit Zoological Society.**
- ✚ **Comparing and Contrasting Watersheds in Michigan (CCWIM) Project with GLOBE schools in the Metro Detroit area (lower peninsula) and Marquette (upper peninsula)**

Future goals:

Continuation of the above projects.

Implementation of a NASA grant Investigating Climate Change and Remote Sensing (ICCARS)



GLOBE in Michigan

**GLOBE Partner: Dr. Mitchell Klett
Northern Michigan University**

History:

- **Partnership Formed: May 2005**
- **Began training teachers: September 2006**
- **Conducted 1 Train-the-Trainer workshops to date**

916 GLOBE Teachers

624 GLOBE Schools

240,325 Total GLOBE Measurements Submitted

15 Schools with 134 Chief Scientist's Honor Roll Citations



GLOBE in Minnesota

**GLOBE Partner: Dr. Tony Murphy
College of St. Catherine**

History:

- **Partnership Formed: January 2005**
- **Began training teachers: June 2005**
- **Conducted 7 teacher training workshops and 2 Train-the-Trainer workshops to date**

211 GLOBE Teachers

129 GLOBE Schools

87,434 Total GLOBE Measurements Submitted
1 School with 82 Chief Scientist's Honor Roll Citations



GLOBE in Mississippi

**GLOBE Partner: Sherry Herron
University of Southern Mississippi**

History:

- **Partnership Formed: December 1996**
- **Began training teachers: October 1999**
- **Conducted 14 teacher training workshops to date**

941 GLOBE Teachers

376 GLOBE Schools

22,967 Total GLOBE Measurements Submitted
1 Student Research Project published on Web site



GLOBE in New Hampshire

**GLOBE Partner: Jennifer Bourgeault
North Country Education Services**

History:

- **Partnership Formed: October 2004**
- **Began training teachers as University of New Hampshire: August 2004**
- **Conducted 59 teacher training workshops to date**

380 GLOBE Teachers

174 GLOBE Schools

**56,565 Total GLOBE Measurements Submitted
2 Schools with 9 Chief Scientist's Honor Roll Citations**



GLOBE in New Jersey

**GLOBE Partner: John Moore
Burlington County Institute of Technology**

History:

- **Partnership Formed: July 2005**
- **Began training teachers: June 2007**
- **Conducted 11 teacher training workshops to date**

323 GLOBE Teachers

251 GLOBE Schools

105,522 Total GLOBE Measurements Submitted

2 Student Research Projects published on Web site

3 Schools with 49 Chief Scientist's Honor Roll Citations

International and U.S. Collaborations:

- ✚ **International GIS Collaboration with Denmark**
- ✚ **GLOBE at Night Community Events**
- ✚ **Participation in GLOBE ESSP(s): Seasons and Biomes and Watershed Dynamics**
- ✚ **Development of two Earth Systems Science Graduate Courses for Teachers**
- ✚ **Community Events: "Meet the Scientists": Collaboration with the National Weather Service**
- ✚ **Students meet Dr. Steve Lyons, The Weather Channel**

Future goals:

**To establish a full time staffed GLOBE Earth Systems Science Educational Center
in collaboration with the Palmyra Cove Nature Park**



GLOBE in New York

**GLOBE Partner: Dr. Todd D. Ellis
State University of New York College**

History:

- **Partnership Formed: October 2009**

2788 GLOBE Teachers

1441 GLOBE Schools

293494 Total GLOBE Measurements Submitted

3 Student Research Projects published on Web site

7 Schools with 34 Chief Scientist's Honor Roll Citations

International and U.S. Collaborations:

- **Partners with CloudSat Educational Network at Colorado State University and NASA Jet Propulsion Lab.**
- **Collaborating with schools in California, Colorado, and Monteverde, Costa Rica.**

Future goals:

Starting a water-quality inquiry project with central NY schools located in proximity to Marcellus Shale Natural Gas drilling operations

Starting to offer training to our extensive cadre of pre-service earth science teachers in our role as one of New York's premier teacher colleges.



GLOBE in Ohio

**GLOBE Partner: Nancy BakerCazan
Stark County Education Service Center**

History:

- **Partnership Formed: December 1997**
- **Began training teachers: July 1998**
- **Conducted 35 teacher training workshops to date**

1415 GLOBE Teachers

818 GLOBE Schools

**352,661 Total GLOBE Measurements Submitted
27 Student Research Projects published on Web site**



GLOBE in Pennsylvania

**GLOBE Partner: Dr. Charylene Philp
North Central Region Mathematics/Science Education
Collaborative - Clarion University**

History:

- **Partnership Formed: April 2003**
- **Began training teachers: December 2003**
- **Conducted 20 teacher training workshops to date**



1000 GLOBE Teachers

640 GLOBE Schools

432,311 Total GLOBE Measurements Submitted

14 Schools with 250 Chief Scientist's Honor Roll Citations

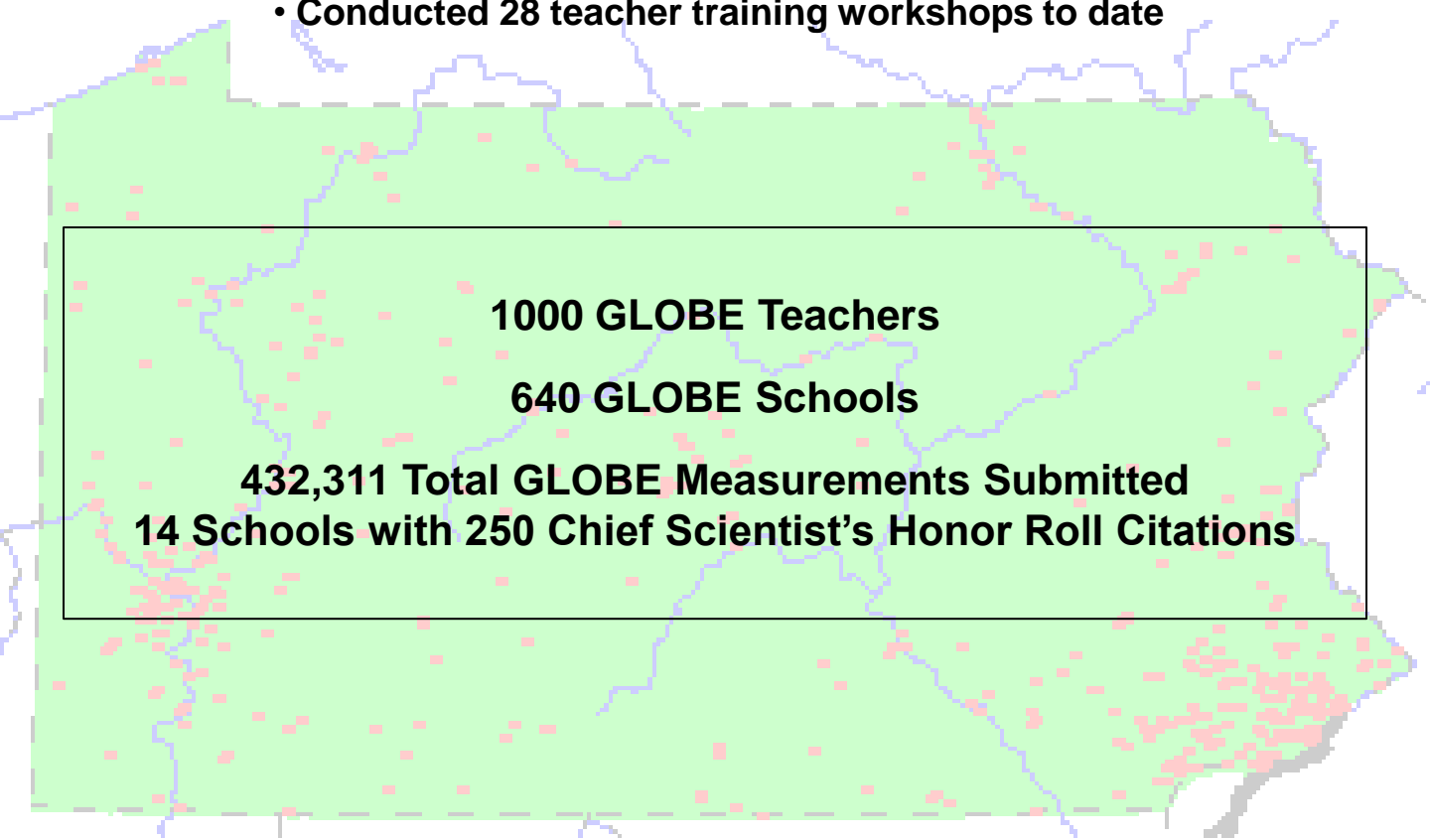


GLOBE in Pennsylvania

**GLOBE Partner: Vivian Willaims
Stroud Water Research Center**

History:

- **Partnership Formed: November 1997**
- **Began training teachers: June 1998**
- **Conducted 28 teacher training workshops to date**

A map of Pennsylvania with a light green background and blue outlines of major rivers. Numerous small red squares are scattered across the map, representing the locations of GLOBE teachers. A black rectangular box is superimposed on the map, containing summary statistics.

1000 GLOBE Teachers

640 GLOBE Schools

432,311 Total GLOBE Measurements Submitted

14 Schools with 250 Chief Scientist's Honor Roll Citations



GLOBE in Tennessee

**GLOBE Partner: Jeanne L. Zavada
East Tennessee State University - General Shale Brick Natural
History Museum**

History:

- **Partnership Formed: October 2009**

503 GLOBE Teachers

271 GLOBE Schools

**44,684 Total GLOBE Measurements Submitted
2 Schools with 16 Chief Scientist's Honor Roll Citations**

International and U.S. Collaborations:

- ✚ **EcoSTARS**—collaboration with local schools and 1 school district in elementary educator preparation using GLOBE as an integral part of the experience with our majors and the teachers in GLOBE schools
- ✚ **Collaboration with National Center for Earth-Surface Dynamics, NSF funded center**
- ✚ **Training teachers on the Red Lake Reservation this spring**
- ✚ **Hosted 2 GLOBE country coordinators in a State Dept visit**
- ✚ **Held training for 8 faculty from Concordia Language Camps**

Future goals:

**Offer more GLOBE training to schools over 2 years
Possible expansion of EcoSTARS model**



GLOBE in Texas

GLOBE Partner: Dr. Marsha Willis
Texas Regional Collaborative - University of Texas at Austin

History:

- **Partnership Formed: November 2005**
- **Began training teachers: February 2006**
- **Conducted 10 teacher training workshops and 4 Train-the-Trainer workshops to date**

3977 GLOBE Teachers

2393 GLOBE Schools

228,509 GLOBE Measurements Submitted

2 Student Research Projects published on Website

9 Schools with 105 Chief Scientist's Honor Roll Citations

International and U.S. Collaborations:

- **Work with and support 39 partners in Texas**
- **Member of the GIAC**

Future goals:

Provide training to Pre-service teachers

Align GLOBE protocols and activities to the new Texas State Standards

Develop activities that utilize the strategies for non-English speaking students.



GLOBE in Texas

**GLOBE Partner: Dr. Michael Odell
University of Texas at Tyler**

History:

- **Partnership Formed: April 2005**
- **Began training teachers: May 2008**
- **Conducted 7 teacher training workshops to date**

3977 GLOBE Teachers

2393 GLOBE Schools

228,509 GLOBE Measurements Submitted

2 Student Research Projects published on Website

9 Schools with 105 Chief Scientist's Honor Roll Citations

International and U.S. Collaborations:

✚ Collaborating with Camp Tyler to train teachers and infuse GLOBE activities into summer curriculum.

Future goals:

Utilize Camp Tyler as an international training base.



The GLOBE Program in West Virginia

**GLOBE Partner: Mr. Todd Ensign
NASA IV & V Educator Resource Center**

History:

- **Partnership Formed: November 2002**
- **Began training teachers: May 2003**
- **Conducted 81 teacher training workshops and 2 Train-the-Trainer workshops to date**

636 GLOBE Teachers

318 GLOBE Schools

80,762 Total GLOBE Measurements Submitted

9 Student Research Projects published on Web site

1 School with 2 Chief Scientist's Honor Roll Citations

International and U.S. Collaborations:

- ✚ **Three teacher workshops in Nigeria.**
- ✚ **One teacher workshop in Carto, Costa Rica in partnership with Omar Dengo Foundation.**
- ✚ **Collaboration between Costa Rica students and WV students through the Integrated Design for Geoscience Education, Marshall University.**
- ✚ **Collaboration between OH View, WV View, MD View, and PA View leading to GLOBE teacher participation in SATELLITES Program, a NASA IPY grant.**
- ✚ **SATELLITES Program workshops in OH year 1, OH and WV year 2, adding PA and MD in year 3.**

Future goals:

**Introduce WV GLOBE Alumni
Introduce Parent Council Representatives**



The GLOBE Program in Canada

**GLOBE Partner: Bill & Carol Batycky
GLOBE Canada**

History:

- **Partnership Formed: July 1997**
- **Began training teachers: August 1998**
- **Conducted 44 teacher training workshops and 2 Train-the-Trainer workshops to date**

564 GLOBE Teachers

356 GLOBE Schools

**10,004 Total GLOBE Measurements Submitted
4 GLOBE Stars highlighting Student Achievement**

International Collaborations

- ✚ **CloudSat Satellite Mission ... Students “Ground-Truthing” for CloudSat**
- ✚ **Students, following GLOBE’s Atmosphere Protocols, make atmosphere observations at the same time that CloudSat overpasses their school.**
- ✚ **Students compare their atmosphere observations to those made by CloudSat from Space.**
- ✚ **Students consider implications that CloudSat presents in the study of Climate Change.**
- ✚ **Globe schools collaboration with Live Earth in their Run for Water.**

Future goals

- ✚ **Support student research and collaboration thru the scientific inquiry process.**
- ✚ **Use the Earth Systems Science Projects to better understand Climate Change.**
- ✚ **Use long term data sets to study trends and patterns – change over time.**

